

DRAFT Data Assessment Team (DAT) Conference Call Notes
2/9/2017 at 11:00 a.m.

Participants: Loi Tran and Farida Islam (DWR), Geir Aasen, and Lauren Damon (DFW), Allison Febbo (MWD), John Speegle and Scott Voss (FWS), Joe Ferreira(DFW) Barb Byrne(NMFS)

Sacramento River Fish Monitoring

Preliminary Rotary Screw Trap (RST) Report				
Species*	FWS Red Bluff Diversion Dam RST (Estimated Passage)	Glenn-Colusa Irrigation District (GCID) RST (Catch)	DFW Tisdale Weir RST (Catch)**	DFW Knights Landing RST (Catch)
Date	No new data/update since last call	No new data/update since last call	2/1/-2/7/17	2/1-2/7/17
CHNF			415	271
CHNLF			0	0
CHNW			4	0
CHNS			6	0
Ad-Clipped CHN				0
SH				0
Ad-Clipped SH				1
GST			Not Reported	Not Reported
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, GST= Green Sturgeon. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision. ** Numbers represent observations and are not expanded to represent estimated passage.				

Scott (FWS) provided update on RBDD monitoring. They are continuing to see wet weather at Red Bluff; collecting samples when it is safe to do so. Since the last reporting period, two samples have been conducted so far at reduced effort for safety. During 2 four hours block of sampling done, 3 spring run, 30 hatchery fish observed from the recent released, also observed number of fall run.

GCID: On 1/4/2017, cone was checked and lifted at 9:00 PM due to predicted high flows and heavy debris. No Update since then.

Graphical summaries of the monitoring data collected at the Sacramento River and at other locations can be found at <http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm>. In addition, the biweekly passage reports of juvenile salmonids sampled at the Red Bluff Diversion Dam are available at http://www.fws.gov/redbluff/rbdd_biweekly.aspx.

Delta Fish Monitoring update provided by Jon Speegle (FWS):

Preliminary FWS Trawl and Seine Catch Report from 1/29/17 to 2/04/17				
Species*	Beach Seines	Mossdale Trawl	Sacramento Trawl	Chippis Island Trawl
CHNF	147	1	742	
CHNLF				
CHNW				
CHNS	3		7	
Ad-Clipped CHN			1	
SH				
Ad-Clipped SH				3
DSM				1
LFS				5
SPLT	1		1	4
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, DSM=Delta Smelt, LFS=Longfin Smelt, SPLT = Splittail. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.				

Information about the Delta fish monitoring data from FWS can be found at <http://www.fws.gov/stockton>

Salvage Monitoring update

Geir Aasen reported the following for 1/30/2017 to 2/5/2017.

CHINOOK SALMON

Fall run sized Chinook Salmon (NON adipose clipped) were salvaged at the federal (weekly salvage= 565) and state (weekly salvage= 916.5) facilities for the period of reporting.

Late fall run sized Chinook Salmon (adipose clipped) were salvaged at the state facility (weekly salvage= 4), but not at the federal facility for the period of reporting.

Late fall run sized Chinook Salmon (NON adipose clipped) were salvaged at the state facility (weekly salvage= 4), but not at the federal facility for the period of reporting.

The seasonal (10/1/2016 to present) salvage totals of all Chinook Salmon at the federal facility are 593 adipose clipped (loss= 411) and 3,773 NON adipose clipped (loss= 2,195).

The seasonal (10/1/2016 to present) salvage totals of all Chinook Salmon at the state facility are 480 adipose clipped (loss= 2,094) and 2,335.8 NON adipose clipped (loss= 9,179).

STEELHEAD

Steelhead (adipose clipped) were salvaged at the federal facility (weekly salvage= 1), but not at the state facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage totals of Steelhead at the state facility are zero adipose clipped and 12 NON adipose clipped.

The seasonal (10/01/2016 to present) salvage totals of Steelhead at the federal facility are 1 adipose clipped and 8 NON adipose clipped.

LONGFIN SMELT

No Longfin Smelt were salvaged at either facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of Longfin Smelt at the state facility is 2.
No Longfin Smelt have been salvaged at the federal facility for the 2016-2017 water year.

DELTA SMELT

No Delta Smelt were salvaged at either facility for the period of reporting.

Geir also reported on DAT Call that 1 Delta Smelt - an expanded salvage of 4 was salvaged at the state facility after the reporting period.

The seasonal (10/01/2016 to present) salvage total of Delta Smelt at the federal facility is 4.

SPLITTAIL

Splittail were salvaged at the state facility (weekly salvage= 244.8), but not at the federal facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of Splittail at the state facility is 2,242.6.

The seasonal (10/01/2016 to present) salvage total of Splittail at the federal facility is 8.

WHITE STURGEON

White Sturgeon were salvaged at the state facility (weekly salvage= 4), but not at the federal facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of White Sturgeon at the federal facility is 4.

The seasonal (10/01/2016 to present) salvage total of White Sturgeon at the state facility is 9.

No Green Sturgeon have been salvaged at either facility for the 2016-2017 water year.

Smelt Monitoring

Smelt Larva Survey smelt catch table from Survey 3 was sent by Lauren Damon (DFW) to the DAT reflector prior to DAT conference call.

SLS # 3 was in the field last week (week of 1/30). 30% of the processing is completed. NO delta smelt were caught. 5 larval Longfin Smelt were caught. Another update will be provided to the group once the process is completed.

SLS#4 will be in the field from 2/13 through 2/16.

SKT#2 is in the field this week. 1 delta smelt was caught at station 812.

Lauren mentioned that all the survey data are now being posted online.

Smelt Working Group

Leigh Bartoo(FWS) provide the following update from the most recent SWG meeting summary:

The Working Group reviewed current Delta conditions, survey data, and forecasted weather. Hydrology that meets the temporary release from OMR prescriptions as identified in the RPA Component 1, Action 2 (page 356) is expected to be in effect by February 7. The SWG indicated that the anticipated OMR flows (Index -4,000 cfs today) are sufficiently protective of Delta Smelt. The Working Group is following guidance for entrainment protections from Action 2 (adult Delta Smelt). The Working Group will continue to monitor Delta Smelt survey and salvage data and Delta conditions, and will meet again on Monday, February 13, 2017 at 10 am.

Working Group meeting notes can be found at:

http://www.fws.gov/sfbaydelta/cvp-swp/smelt_working_group.cfm.

Delta Operations for Salmonids and Sturgeon (DOSS) Working Group Update provided by Barb Byrne via the DAT reflector (NMFS):

Highlights from 2/7/17 DOSS meeting:

DOSS Advice:

- None

RPA Implementation

• **Action IV.1.2 (DCC operations):**

- The DCC was closed on the morning of 12/1/16.
- From February 1 to May 20, the gates will remain closed (from December 15 to January 31, were a few exceptions that would allow DCC opening)

• **Action IV.2.3 (OMR Management)**

- Implementation of this action in WY 2017 began 1/1/17, and requires that Old and Middle River (OMR) flow be no more negative than -5,000 cfs.
- Since the action went into effect on 1/1/17, no salvage-based triggers that would require more positive OMR levels have been exceeded.

Winter-run Juvenile Production Estimate

- NMFS issued the Winter-run Juvenile Production Estimate on Friday, 2/3/17; letter available at: http://www.westcoast.fisheries.noaa.gov/publications/Central_Valley/Water%20Operations/winter-run_juvenile_production_estimate_jpe_-_february_3_2017.pdf
- Estimate of brood-year 2016 wild juvenile winter-run entering the Delta [the juvenile production estimate (JPE)] in WY 2017 is 166,189.
 - Incidental take limit of wild winter-run at the export facilities (based on genetic run assignment) is 1% of the JPE, or 1,662.
- Estimate of the hatchery winter-run release that will enter the Delta is 58,188.
 - Incidental take limit of hatchery winter-run at the export facilities (based on CWT codes) is 1% of the hatchery fish entering the Delta, or 582.
- As expected, the JPE is low enough that the minimum trigger values of 2.5 fish/TAF and 5.0 fish/TAF are still in effect for implementation of the JPE-based trigger in Action IV.2.3

Fish Monitoring: Salvage

- Unclipped juvenile salmon (none in the winter-run or spring-run size ranges) were salvaged over past week; zero wild and one clipped steelhead were salvaged.
- No ad-clipped late-fall run salmon from the recent CNFH releases showed up in salvage over the past week (one late-fall-run sized adclipped fish was observed in salvage, but no CWT could be found)
- No large (likely 2-year old) salmon observed in salvage over past week.

Fish Monitoring: RSTs, trawls, seines:

- Continued catch of wild WR-sized, SR-sized, and FR-sized Chinook in monitoring over past week, as well as ad-clipped late-fall run (likely from the recent Coleman releases) and clipped steelhead.
- Flows and turbidities remain high
- EDSM salmonid catch: For the 1/30-2/2 sampling period, 31 fall-run-sized Chinook, 1 spring-run-sized Chinook, and 1 clipped steelhead were caught; see DOSS notes (available later this week) or EDSM datasheet (available now at: https://www.fws.gov/lodi/juvenile_fish_monitoring_program/jfmp_index.htm) for details.
- A single fall-run-sized Chinook was caught in the Mossdale trawl this week (indicating outmigration of juvenile salmonids from the San Joaquin basin)

DOSS estimates of current fish distribution:

Location	Yet to Enter Delta (Upstream of Knights)	In the Delta	Exited the Delta (Past Chipps Island)
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	Landing)		
<i>Wild young-of-year (YOY) winter-run Chinook salmon</i>	0%-5% (Last week: 0-5%)	65%-80% (Last week: 70%-85%)	20%-25% (Last week: 15%-25%)
<i>Wild young-of-year (YOY) spring-run Chinook salmon</i>	20-30% (Last week: 20% - 40%)	40%-70% (Last week: 35%-65%)	20-25% (Last week: 15%-25%)
<i>Hatchery winter-run Chinook salmon (released 2/2/17)</i>	100% (first estimate)	0% (first estimate)	0% (first estimate)

DOSS estimates of Entrainment Risk:

• **Interior Delta Entrainment Risk for listed salmonids in the Sacramento River over the next week:**

- Overall Entrainment Risk: MEDIUM

• **CVP/SWP Facilities Entrainment Risk for listed salmonids in the Interior Delta over the next week:**

- Overall Entrainment Risk:
 - OMR -2,500 cfs: LOW
 - OMR -3,500 cfs: LOW-MEDIUM (given current hydrology and high Vernalis flow)
 - OMR -5,000 cfs: MEDIUM-HIGH (given current hydrology and high Vernalis flow)
 - OMR -6,250 cfs (*assessment of this OMR level requested by management*): incrementally higher within MEDIUM-HIGH (given current hydrology and high Vernalis flow)

In addition, Barb also informed the DAT members that the Rapid genetic protocol currently in place in which fish are sent for genetic confirmation only takes place when it exceeds the trigger which did not occur as of now during this season.

WY 2017 DOSS

notes: http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2017.html

All things DOSS: http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/doss.html

Operations update provided by Loi Tran(DWR):

Preliminary Summary for 2/9/2017			
SWP		CVP	
Clifton Court Inflow (cfs)	10,300	Jones Pumping Plant (cfs)	4,100
SWP San Luis Reservoir Share (TAF) as of Midnight	1,051	CVP San Luis Reservoir Share (TAF) as of Midnight	756
San Luis Reservoir Total (TAF)	1,807	American – Nimbus Reservoir	80,000 by 2 pm

as of Midnight		Releases (cfs)	today
Feather – Oroville Reservoir Releases (cfs)	6,000	Sacramento – Keswick Reservoir Releases (cfs)	15,000
		Stanislaus-Goodwin Reservoir Releases (cfs)	2215
DELTA OPERATIONS			
Outflow (cfs)	247,400	Delta Cross Channel (DCC) Gates	Closed
Total Delta Inflow (cfs)	251,974	1 day OMR average (cfs)	-5378
X2 (km)	<56	5 day OMR average (cfs)	-4505
Export/Inflow (%)	9.8	14 day OMR average (cfs)	-3400

Controlling factor(s): Current Capacity

<http://www.water.ca.gov/swp/operationscontrol/docs/delta/deltaops.pdf>.

Next Conference Call:

Next DAT call will be 2/16/17.

Final DAT notes can be viewed at

<http://www.water.ca.gov/swp/operationscontrol/calfed/calfeddat.cfm>